Application Serial No. 10/643,376
Response to Restriction Requirement dated December 28, 2004
Reply to Restriction Requirement dated December 1, 2004

Amendments to Claims

This listing of claims will replace all prior versions and
listing of claims in the application:

Listing of Claims

1-32.   (canceled)

33.   (previously presented) A thermostat system comprising:

a processor having a user interface; and

a program, in the processor, having an at least one

configuration for an air management system, the

at least one configuration comprising:

an air management system identification;

a listing of zones for the air management

system;

parameter settings for each zone;

schedules of the parameter settings;

a modulated control for a plurality of

heating stages for at least one zone;

and

a modulated control for a plurality of

cooling stages for at least one zone.

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34. (previously presented) The system of claim 33, further

comprising:

a plurality of programmable thermostats; and

wherein the processor may download the program having

at least one configuration to each thermostat of

the plurality of thermostats.

35. (previously presented) The system of claim 34, wherein the

at least one configuration further comprises a modulated control

for a simultaneous operation of a heating device and a cooling

device.

36. (previously presented) The system of claim 35, wherein the

simultaneous heating device and the cooling device is for

affecting humidity.

37. (previously presented) The system of claim 36, wherein the

at least one configuration comprises a modulated control for an

air mover.

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38.   (previously presented) The system of claim 37, wherein the

modulated controls comprise PID (proportional, integral and

derivative) control loop tuning.

39.   (previously presented) The system of claim 38, wherein the

parameters are selected from a group consisting of temperatures,

humidity, sensor selection, volume of air movement, the

percentage of added fresh air, modes of occupied, unoccupied or

standby of certain spaces for at least one zone.

40.   (previously presented) The system of claim 38, wherein the

at least one configuration further comprises a selectable non-

modulated control for the pluralities of the heating and cooling

stages and for the air mover.

41.   (previously presented) The system of claim 40, wherein the

processor is a portable configuring device.

42.   (previously presented) The system of claim 41, wherein the

processor has a capability comprising:

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uploading a configuration from a thermostat of the

plurality of thermostats;

modifying the configuration; and

downloading the configuration to the thermostat.

43.   (previously presented) The system of claim 42, wherein the

processor may download the configuration to several thermostats

of the plurality of thermostats.

44.   (previously presented) The system of claim 41, wherein:

the processor may upload a configuration from a

thermostat of the plurality of thermostats;

the configuration may be diagnosed for possible

problems;

the configuration may be modified to remove the

possible problems; and

the configuration may be downloaded to the thermostat

of the plurality of thermostats.

45.   (previously presented) The system of claim 41, wherein the

processor is a personal digital assistant.

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46. (previously presented) The system of claim 45, the personal

digital assistant is selected from group of devices consisting

of a Palm™ and the like

47. (withdrawn) A thermostat system comprising:

    a configuring device; and

    a plurality of thermostats for air management systems,

        respectively; and

    wherein:

        the configuring device may upload, store, modify

           and download one or more configurations of

           the plurality of thermostats;

        each configuration may be modified by changing:

           parameter settings;

           schedules of parameter settings; and

           modulated controls for heating stages

           and cooling stages.

48. (withdrawn) The system of claim 47, wherein each air

management system may have a plurality of zones.

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49.   (withdrawn) The system of claim 48, wherein the configuring

device has various configurations that may be downloaded to the

thermostats of the air management systems at different

locations.

50.   (withdrawn) The system of claim 49, wherein the configuring

device is a commercially available computer.

51.   (withdrawn) The system of claim 50, wherein the configuring

device is a person digital assistant.

52.   (withdrawn) The system of claim 51, the personal digital

assistant is selected from group of devices consisting of a

Palm™ and the like.

53.   (withdrawn) A thermostat system comprising:

     a plurality of thermostats; and

     wherein each thermostat of the plurality of

       thermostats comprises at least one configuration

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for an air management system, the at least one

configuration comprising:

> an air management system identification;
>
> a listing of zones for the air management
>
> > system;
>
> parameter settings for each zone;
>
> schedules of the parameter settings;
>
> modulated controls for a plurality of
>
> > heating stages for at least one zone;
> >
> > and
>
> modulated controls for a plurality of
>
> > cooling stages for at least one zone.

54.   (previously presented) The system of claim 53, wherein the

plurality of thermostats is connected to a communications bus.

55.   (previously presented) The system of claim 54, further

comprising a sequencing system controller connected to the

communications bus, for controlling and staging the plurality of

thermostats.

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56. (previously presented) The system of claim 55, wherein the

at least one configuration further comprises a modulated control

for a simultaneous operation of a heating device and a cooling

device.

57. (previously presented) The system of claim 56, wherein the

simultaneous heating device and the cooling device is for

affecting humidity.

58. (previously presented) The system of claim 57, wherein the

at least one configuration comprises a modulated control for an

air mover.

59. (previously presented) The system of claim 58, wherein the

modulated controls comprise PID (proportional, integral and

derivative) control loop tuning.

60. (previously presented) The system of claim 58, wherein the

parameters are selected from a group consisting of temperatures,

humidity, sensor selection, volume of air movement, the

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percentage of added fresh air, modes of occupied, unoccupied or

standby of certain spaces for at least one zone.

61. (previously presented) The system of claim 58, wherein the

at least one configuration further comprises a selectable non-

modulated control for the pluralities of the heating and cooling

stages and for the air mover.

62. (previously presented) The system of claim 61, further

comprising:

> a configuring device; and

> wherein:

> the configuring device may communicate with system

>> sequencing controller; and

> the configuring device may upload, store, modify and

>> download one or more configurations of the system

>> sequencing controller and at least one

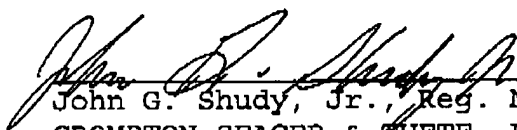>> configuration of the plurality of thermostats.

63. (previously presented) The system of claim 61, wherein the

configuring device is a personal digital assistant.

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Respectfully submitted,

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